

Amendments to the Claims

Please cancel claims 15 and 22 without prejudice.

Please amend claims 13 and 20 as follows:

1-12. (Cancelled)

13. (Currently Amended) Method for reducing quantization error during video level signal processing for a display device with digitally driven pixels, comprising:

digitally filtering a signal charged with said quantization error with a digital filter having a plurality of filter coefficients, said signal including a video level for each pixel of said display device, and

varying at least one of said filter coefficients of the filter in dependence on the video level for a current pixel by stronger filtering a lower video level for said pixel while less filtering or not filtering a higher video level for said pixel to reduce quantization error in the lower video level;

wherein said filtering includes one and/or two dimensional median filtering.

14. (Previously Presented) Method according to claim 13, wherein said filtering includes one and/or two dimensional low pass filtering.

15. (Cancelled)

16. (Previously Presented) Method according to claim 13, wherein a decreased value for the filter coefficient is used for a pixel with increased luminance.

17. (Previously Presented) Method according to claim 13, wherein the spatial dimension and/or the temporal direction of said digital filter varies with the video level of a current pixel.

18. (Previously Presented) Method according to claim 13, wherein, in case of a low

pass filter, the coefficients are given by
$$\frac{1}{\sum_{i=0}^8 a_i} \begin{vmatrix} a_2 & a_3 & a_4 \\ a_1 & a_0 & a_5 \\ a_8 & a_7 & a_6 \end{vmatrix}$$

with $a_0=1$ and with $a_i=f_i(x_0, x_i)$.

19. (Previously Presented) Method according to claim 18, wherein, the function is the

following:
$$f_{2n}(x_o, x_{2n}) = \begin{cases} \alpha & \text{if } |x_{2n} - x_o| \leq \Delta \\ 0 & \text{otherwise} \end{cases} \quad \text{and} \quad f_{2n+1}(x_o, x_{2n+1}) = \begin{cases} \beta & \text{if } |x_{2n+1} - x_o| \leq \Delta \\ 0 & \text{otherwise} \end{cases}$$

with Δ a limit of neighbor.

20. (Currently Amended) Device for reducing quantization error during video level signal processing for a display device with digitally driven pixels, comprising:

digital filter means for digitally filtering a video signal charged with said quantization error, said filter means having a plurality of filter coefficients, and said signal including a video level for each pixel of said display device, and

a controlling means connected to said digital filter means for varying at least one of said filter coefficients in dependence on the video level for a current pixel by stronger filtering a lower video level for said pixel while less filtering or not filtering a higher video level for said pixel to reduce noise in the lower video level;

wherein said digital filter means includes a one and/or two dimensional median filter.

21. (Previously Presented) Device according to claim 20, wherein said digital filter means includes one and/or two dimensional low pass filter.

22. (Cancelled)

23. (Previously Presented) Device according to claim 20, wherein the value of a filter coefficient is decreasable by said controlling means when the luminance of a current pixel increases.

24. (Previously Presented) Device according to claim 20, wherein the spatial dimension and/or the temporal direction of a filter of said digital filter means is variable with the video level of a current pixel by said controlling means.